

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Claim Listing:

1. (Currently Amended) A method for transmitting a data field of symbols comprising the steps of:

generating a first data field of symbols;

encoding said first data field producing a second data field having complex conjugates of the symbols of said first data field;

spreading said first and second data fields, wherein said first data field is spread using a first channelization code that is uniquely associated with a first antenna and said second data field is spread using a second channelization code, ~~each channelization code being~~ that is uniquely associated with ~~one of a first and second antennas~~ antenna; and

transmitting an RF signal including said first and second spread data fields over ~~[[a]] the first and second antenna~~ antennas.

2. (Original) The method of claim 1 further comprising the step of scrambling said first and second spread data fields by a scrambling code associated with said base station.

3. (Original) The method of claim 2 wherein the symbols of said first data field of symbols are grouped into a first and second sub-data field.

4. (Original) The method of claim 3, wherein the symbols of said second data field of symbols are grouped into a third and fourth sub-data field, wherein said third sub-data field is the negative complex conjugate of said second sub-data field and said fourth sub-data field is the complex conjugate of said first sub-data field.

5. (Currently Amended) A transmitter for transmitting a data field of symbols comprising:

a first and second antenna for transmitting said data field of symbols, wherein said data field includes a first data field;

an encoder for encoding said data field producing a second data field having complex conjugates of the symbols of said data field; and

~~a first and second spreading channelization device for receiving the data field including the first data field and spreading said first and second data fields field, wherein said first spreading channelization device spreads said first data field using a first channelization code that is uniquely associated with the first antenna; and and said second spreading device spreads said second data field using a second channelization code, each channelization code being uniquely associated with one of said first and second antennas.~~

a second channelization device for receiving the second data field from the encoder and spreading said second data field using a second channelization code, the second channelization code being uniquely associated with the second antenna.

6. (Original) The transmitter of claim 5 wherein said transmitter further comprising a first and second scrambling device for scrambling said first and second spread data fields by a single scrambling code associated with said transmitter.

7. (Original) The transmitter of claim 6 wherein the symbols of said first data field of symbols are grouped into a first and second sub-data field.

8. (Original) The transmitter of claim 7, wherein the symbols of said second data field of symbols are grouped into a third and fourth sub-data field, said

third sub-data field being the negative complex conjugate of said second sub-data field and said fourth sub-data field being the complex conjugate of said first sub-data field.

9-12. (Canceled).

13. (Currently Amended) A method for transmitting a data field of symbols comprising the steps of:

generating a data field of symbols, wherein said data field includes a first data field;

spreading said first data field using a first channelization code producing a first spread data field, wherein the first channelization code is uniquely associated with a first antenna;

spreading said first data field using a second channelization code producing a second spread data field, wherein the second channelization code is uniquely associated with a second antenna ~~each channelization code being uniquely associated with one of a first and second antennas;~~ and

transmitting an RF signal including said first and second spread data fields over [[a]] the first and second antenna antennas.

14. (Original) The method of claim 13 further comprising the steps of scrambling said first and second spread data fields by a scrambling code associated with said transmitter.

15. (Currently Amended) A transmitter for transmitting a data field of symbols comprising:

a first and second antenna for transmitting said data field of symbols; and

a first ~~and second spreading~~ channelization device for spreading said data field, wherein said first ~~spreading~~ channelization device spreads said data field using a first channelization code that is uniquely associated with the first antenna, producing a first spread data field; ~~and, and said second spreading device spreads said data field using a second channelization code, producing a second spread data field, each channelization code being uniquely associated with one of said first and second antennas.~~

a second channelization device for spreading said data field using a second channelization code that is uniquely associated with the second antenna, producing a second spread data field.

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16. (Original) The transmitter of claim 15 further comprising a first and second scrambling device for scrambling said first and second spread data fields by a single scrambling code associated with said transmitter.

17-18. (Canceled).